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| Substitute for form 1449A/B/PTO |   |    |   | Complete if Known      |                 |
|                                 |   |    |   | Application Number     | 10/646,371      |
|                                 |   |    |   | Filing Date            | August 22, 2003 |
|                                 |   |    |   | First Named Inventor   | Graber, Armin   |
|                                 |   |    |   | Art Unit               | 2881            |
|                                 |   |    |   | Examiner Name          | Marcus Kirk     |
| Sheet                           | 1 | of | 1 | Attorney Docket Number | SY9-179         |

| U.S. PATENT DOCUMENTS |                       |   |                                |  |   |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
| AK                    | A1                    | US 2002/0001814 A1  | 01-03-2002                     | Chu, Ivan K., et al.                               |   |

| FOREIGN PATENT DOCUMENTS |                       |  |                                |  |   |
|--------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear |
| AK                       | B1                    | EP 1 006 559 A2  | 07-06-2000                     | MDS Inc.   |   |
| AK                       | B2                    | WO 02/061047 A2, A3  | 08-08-2002                     | Ciphergen Biosystems, Inc.                         |   |
| AK                       | B3                    | WO 02/21139 A2   | 03-14-2002                     | Oxford Glycosciences (UK) Ltd.                     |   |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |  |  |                |
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| AK                              | C47                   | GRAS, R., et al. Improving protein identification from peptide mass fingerprinting through a parameterized multi-level scoring algorithm and an optimized peak detection. Electrophoresis. 1999; vol. 20:3535-3550.   |  |  |                |
| AK                              | C48                   | PAPAYANNOPOULOS, I.A., The Interpretation of Collision-induced Dissociation Tandem Mass Spectra of Peptides. Mass Spectrometry Reviews. 1995; vol. 14:49-73.  |  |  |                |
| AK                              | C49                   | Partial International Search Report for PCT/US03/26471 as an annex to an Invitation to Pay Additional Fees.   |  |  |                |

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|                    |                       |                 |                  |
|--------------------|-----------------------|-----------------|------------------|
| Examiner Signature | <i>Aurélien Wells</i> | Date Considered | January 25, 2005 |
|--------------------|-----------------------|-----------------|------------------|

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| Substitute for form 1449A/B/PTO                  |   |    |   | (Complete if Known)    |                       |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT |   |    |   | Application Number     | 10/646371-Conf. #8662 |
| (Use as many sheets as necessary)                |   |    |   | Filing Date            | August 22, 2003       |
|  |   |    |   | First Named Inventor   | Armin GRABER          |
|  |   |    |   | Art. Unit              | 2881                  |
|  |   |    |   | Examiner Name          | N. Wells              |
| Sheet  | 1 | of | 1 | Attorney Docket Number |                       |
| SY9-179  |   |    |   |                        |                       |

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|                          |                       |  |                                |  | T <sup>6</sup>  |

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| MJS                             | A<br>C50              | Jensen, O.N., et al. "Delayed extraction improves specificity in database searches by matrix-assisted laser desorption/ionization peptide maps" <i>Rapid Communications in Mass Spectrometry</i> 1996 (10):1371-1378.   |  |  |  |
| MJS                             | B C41                 | International Search Report for PCT/US03/26471  |  |  |  |

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|--------------------|---------------------|-----------------|-------------------------|
| Examiner Signature | <i>Nicole Wells</i> | Date Considered | <i>January 25, 2005</i> |
|--------------------|---------------------|-----------------|-------------------------|